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McKenzie D, Bartz J, Mirwald J, Olander D, Marsh R, Alken J.	Influence of guanidine on proteinase K resistance in vitro and infectivity of scrapie prion proteinater (%c)2006
Department of Animal Health and Biomedical Sciences, University of Wisconsin-Madison, Madison, Wisconsin 53706, USA. mckenzie@ahabs.wisc.edu  The only known difference between the cellular (PrPC) and scrapie-specific (PrPSc) isoforms of the prion protein is conformational. Because disruption of PrPSc structure decreases scrapie infectivity, restoration of the disease-specific conformation should restore infectivity. In this study, disruption of PrPSc (as monitored by the loss of proteinase K resistance) by guanidine hydrochloride (GdnHCl) resulted in decreased infectivity. Upon dilution of the GdnHCl, protease resistance of PrP was restored and infectivity was regained. The addition of copper facilitated restoration of both infectivity and protease resistance of PrP in a subset of samples that did not renature by the simple dilution of the GdnHCl. These data demonstrate that loss of scrapie infectivity can be a reversible process and that copper can enhance this restoration of proteinase K resistance and infectivity.  PMID: 9748215 [PubMed - indexed for MEDLINE]	Partial unfolding and refolding of scrapie-associated prion protein: evidence for a critical (BiktDer Orterynift@6)  Review Biochemistry and structure of PrP(C) and PrP (Sc). [Br Med Bull. 2003]  Review Prion protein diversity and disease in the transmissible spongiform encephate at the transmissible spongiform encephate at the screen. 2001]  » See reviews   » See all  Cited by 9 PubMed Central articles  Oral transmissibility of prion disease is enhanced by binding to soil particles. [PLoS Pathog. 2007]  Prions adhere to soil minerals and remain infectious. [PLoS Pathog. 2006]  Copper induces increased beta-sheet content in the scrapie-susceptible ovine prion protein (Brank Med J. 2004)
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